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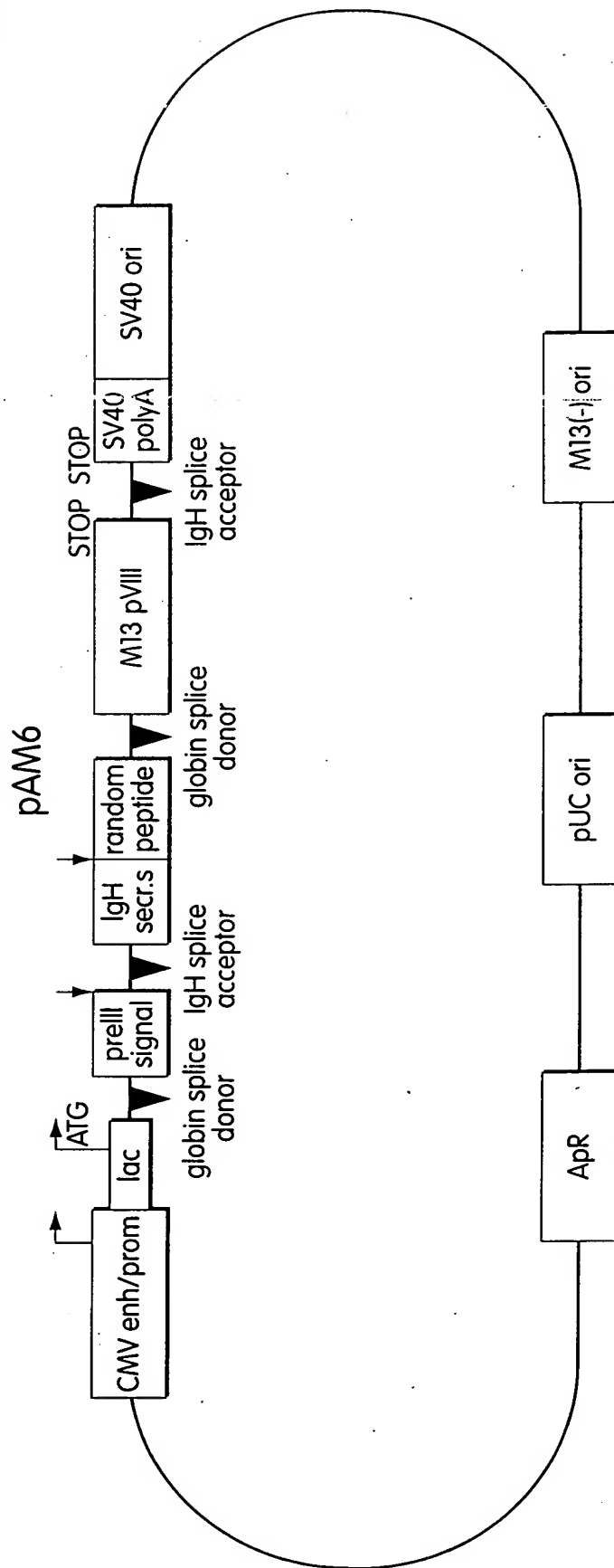


Fig. 1

#6



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pAM7 and pAM9

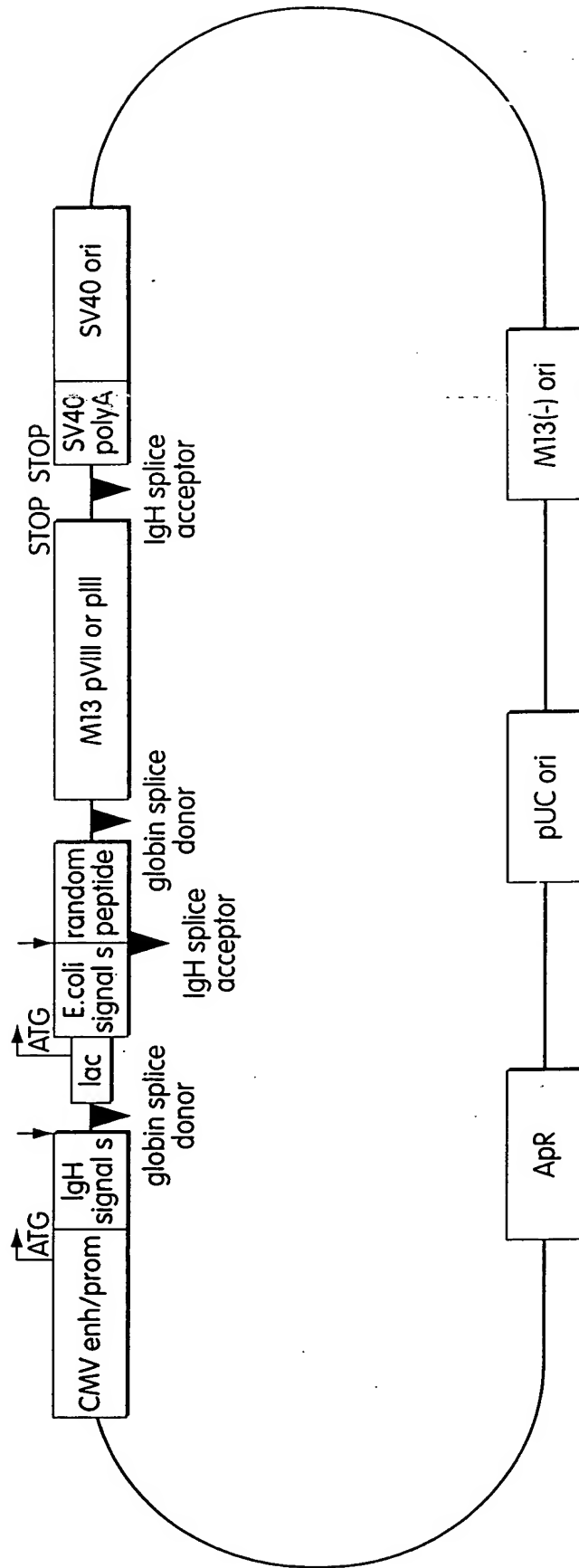


Fig. 2



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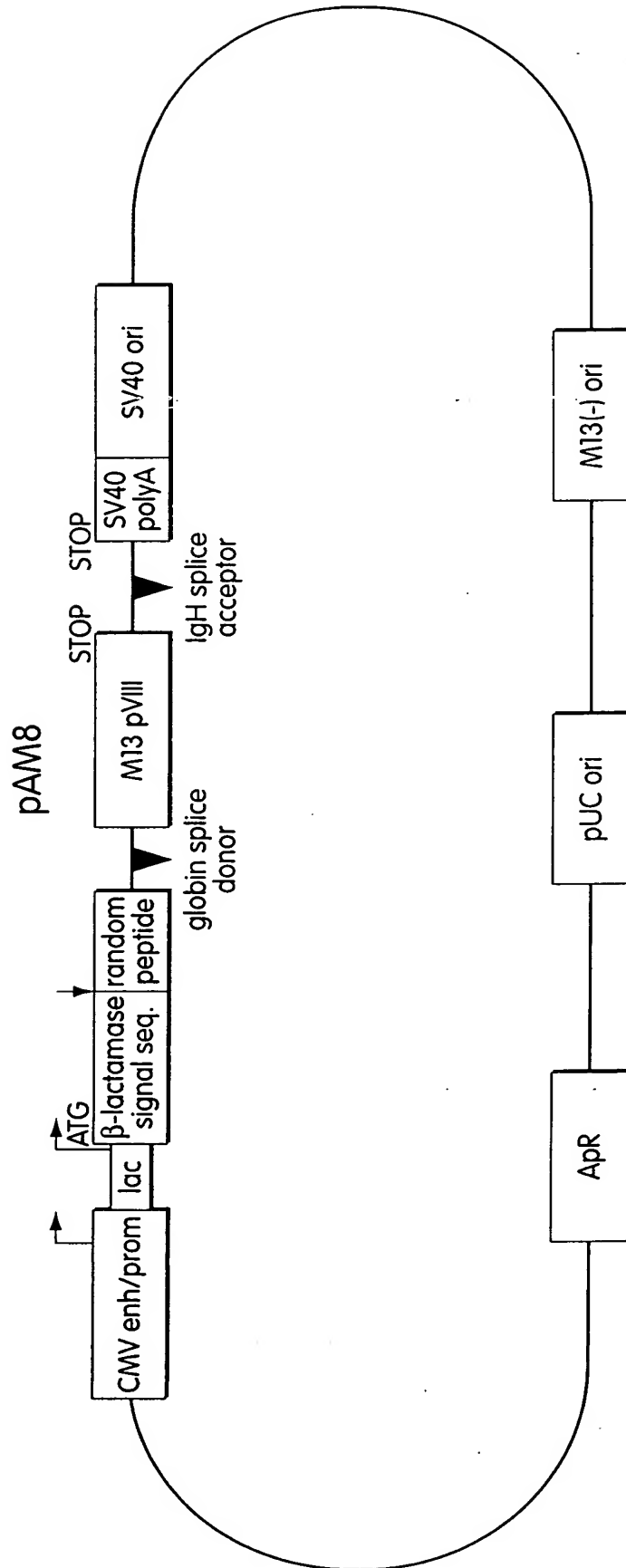


Fig. 3

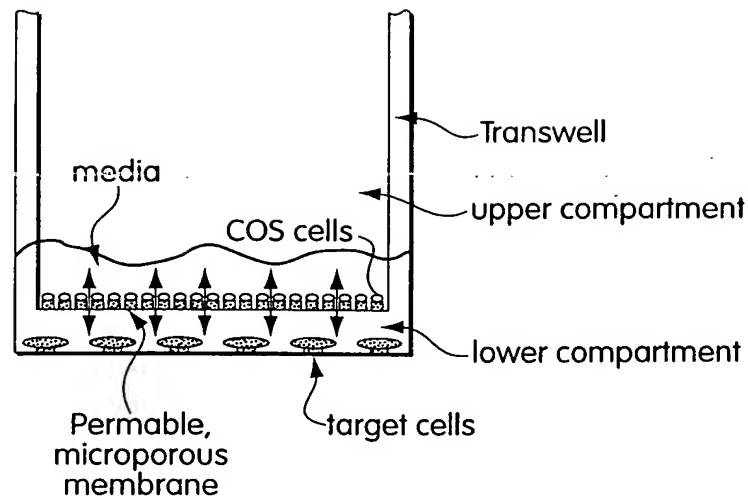


Fig. 4A

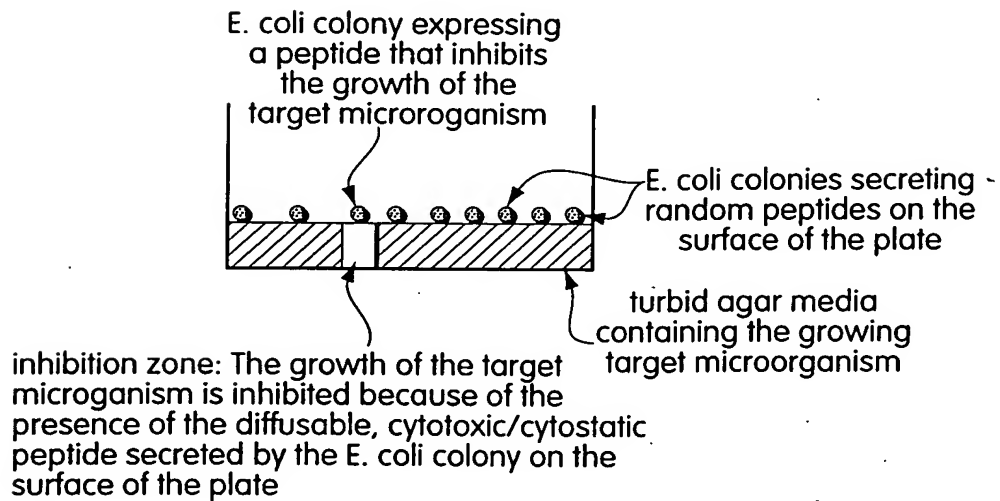


Fig. 4B



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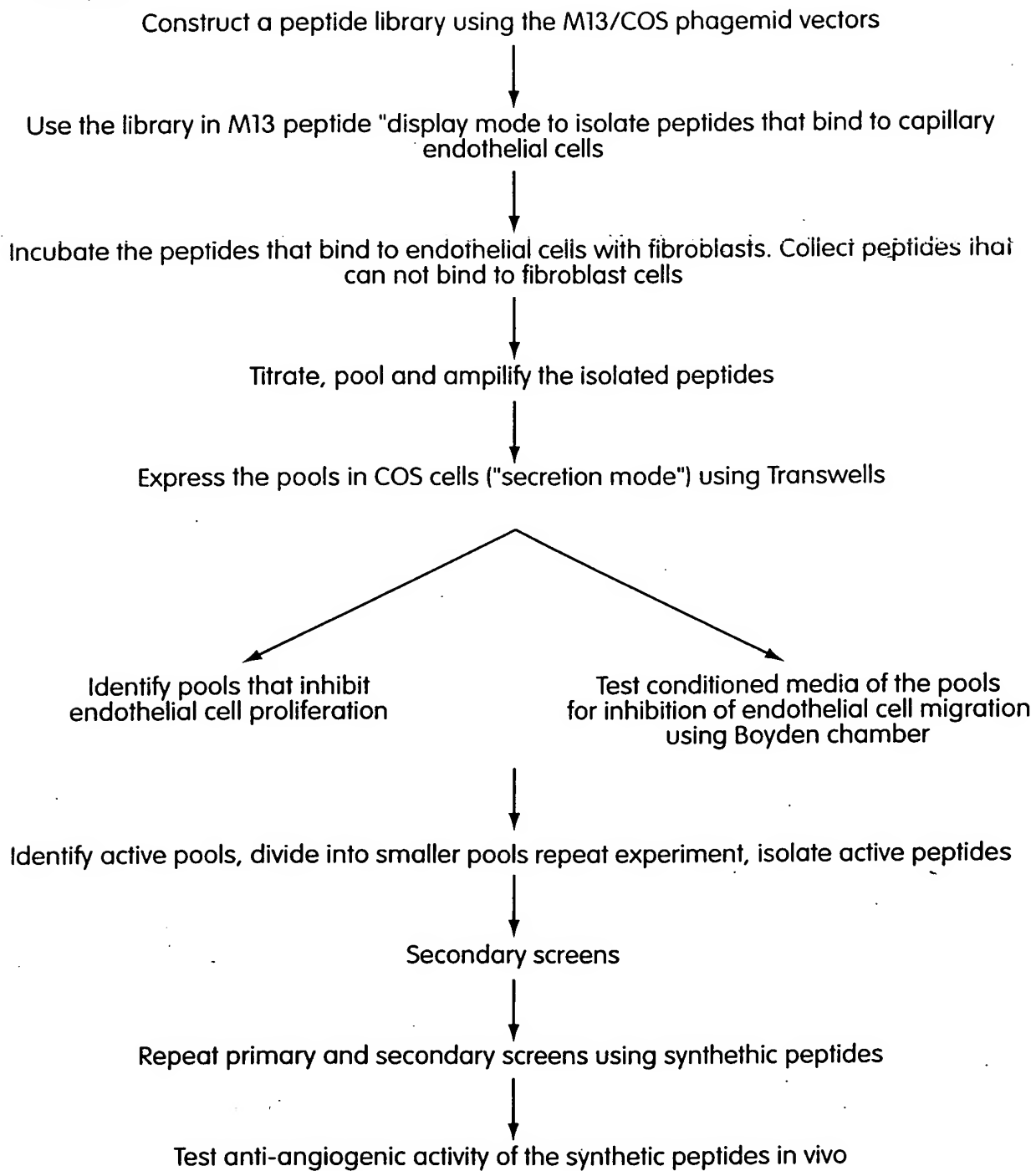


Fig. 5



Fig. 6



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# pAM7

end of CMV XbaI Kozak IgH signal peptide globin splice donor lac promoter  
CGCAATTACTCTAGAGCCACCATTGAAATGCAGCTGGTTATCTTCTCTGATGGCAGTGTACAGGGTCAATTCAGGTAAGTGAGTTAGTCACTCATTA

↑ K C S W V I F F L M A V V T G V N S  
eukaryotic Start  
signal peptidase cleavage site (eukaryotic)

lac operator lac promoter E. coli  
GGCACCCAGGGCTTTACACTTTATACCTCCGGCTCGTATATTGTGTGGAAATTGTGAGCGGATAACAATTCACACAGGAACACCTATGAAAAATCAAACTGGCG  
-35 box -10 box RBS K I K L A  
E. coli mRNA Start prokaryotic Start

Ig branch and splice acceptor "designer" secretion signal BstXI(II) NotI Myc epitope 6xHis  
TTACTCGCCCTGACTTCTCTTCTGCTCTTGCAGGTCCAGGCGGATGGCGGCGCCGAGCAAAAGCTCATTTCTGAAGAGGACTTGGCACACCATCAC  
L L A L T S L S A L A G P G G W A A A E Q K L I S E E D L A H H H

↑  
signal peptidase cleavage site (E. coli)

PstI BstXI (2) globin splice donor M13 pVIII  
CATCACCATCTGCAGCCATTATCTTGGCAGGTAAGTGCTGAGGGTGACGATCCC-----TTCACCTCGAAAGCAAGCTGA  
H H L Q P L S W Q V S A E G D D P F T S K A S ↑

E. coli Stop

E. coli transcriptional terminator Ig branch and splice acceptor SV40 polyA  
TAAAGTCTAAGCCCGCTAATGAGCGGGCTTTTCTTACTGACATcctcgaggCCTTCTCTCCACAGGGGTAGATAACTGAACCTGTTTATTGCAGATTATAATG....

XhoI  
eukaryotic Stops

Fig. 7



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# pAM8

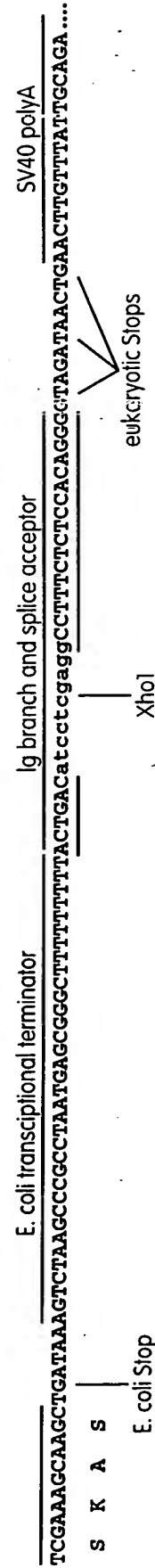
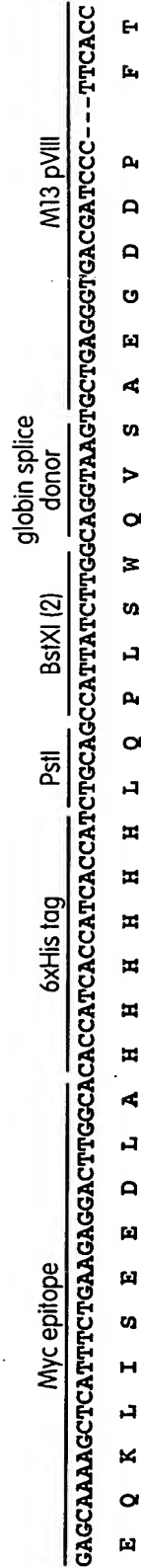
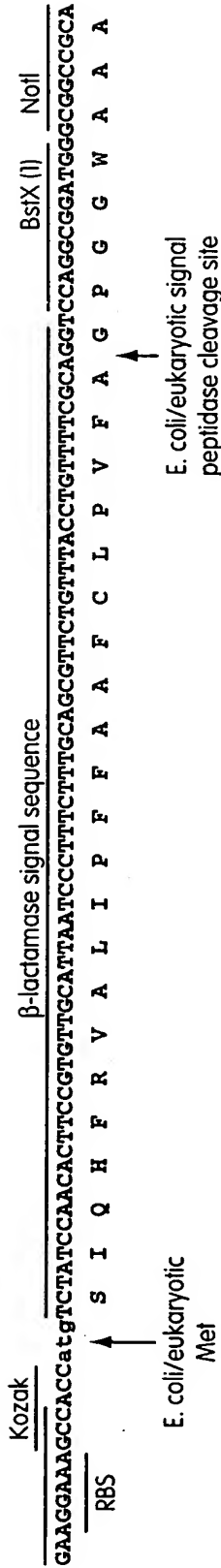
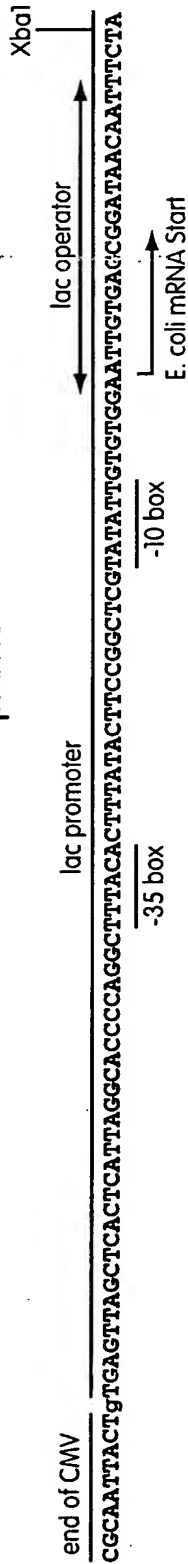


Fig. 8





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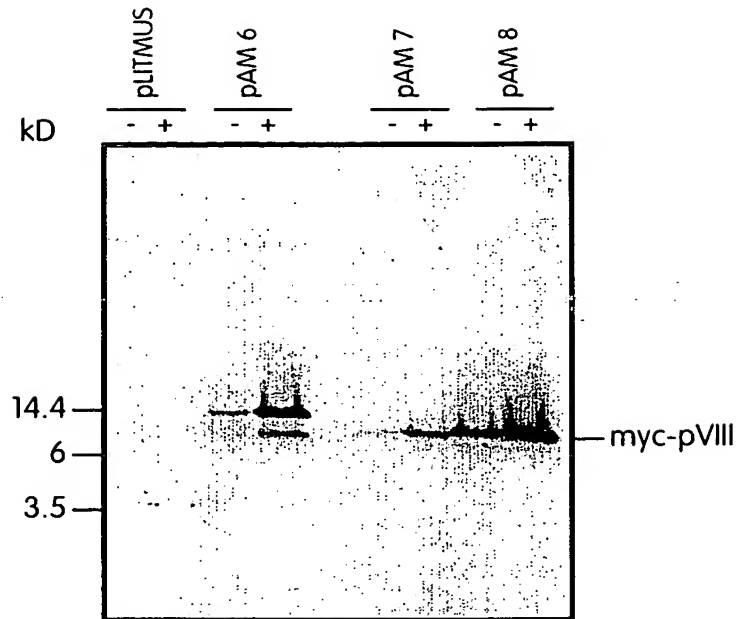


Fig. 9

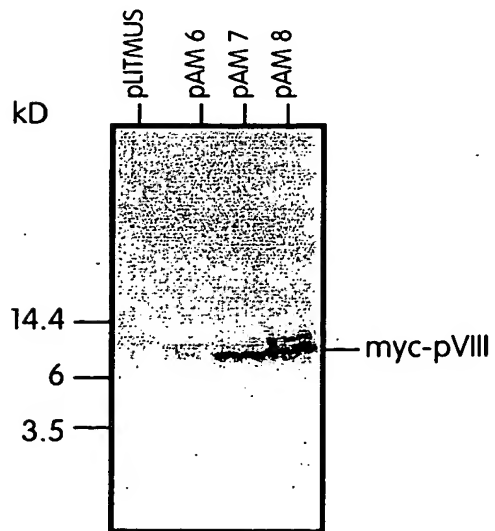


Fig. 10



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Characterization of the peptide display vectors

<u>Plasmids:</u>	<u>c.f.u.:</u>	<u>p.f.u.:</u>	<u>c.f.u./p.f.u.:</u>
pAM6	$2.8 \times 10^{12}/\text{ml}$	$1.9 \times 10^{11}/\text{ml}$	~15
pAM7	$2 \times 10^{12}/\text{ml}$	$1.5 \times 10^{11}/\text{ml}$	~13
pAM8	$10^{12}/\text{ml}$	$2.2 \times 10^{11}/\text{ml}$	~5
pLITMUS	$2 \times 10^{12}/\text{ml}$	$8.4 \times 10^{11}/\text{ml}$	~2

Fig.11

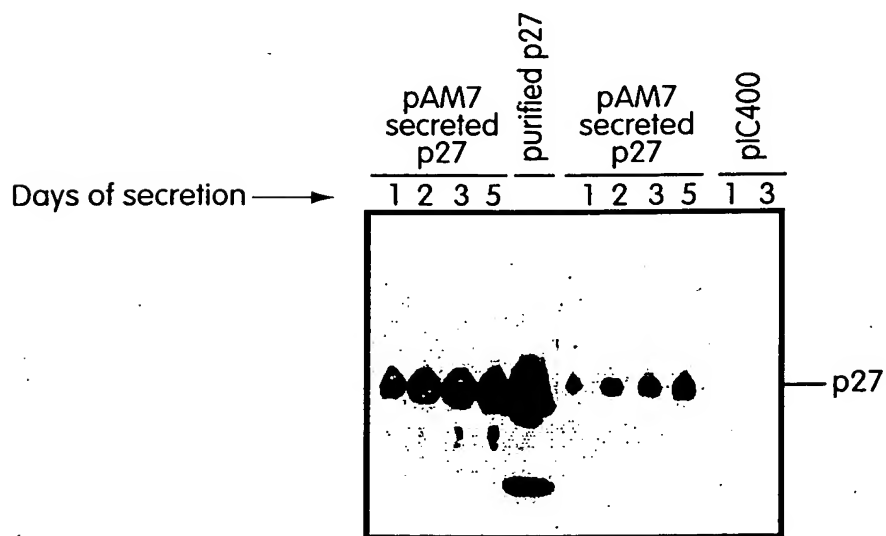


Fig.12



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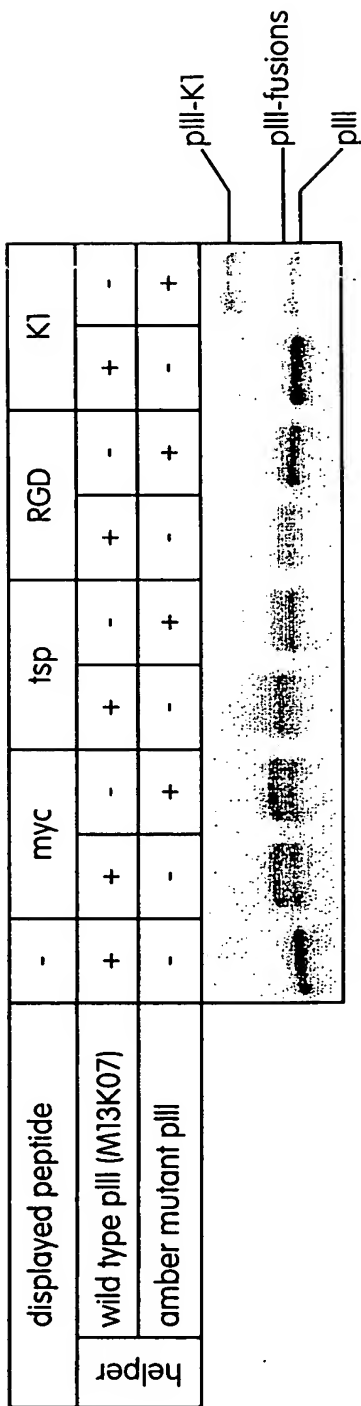


Fig. 13



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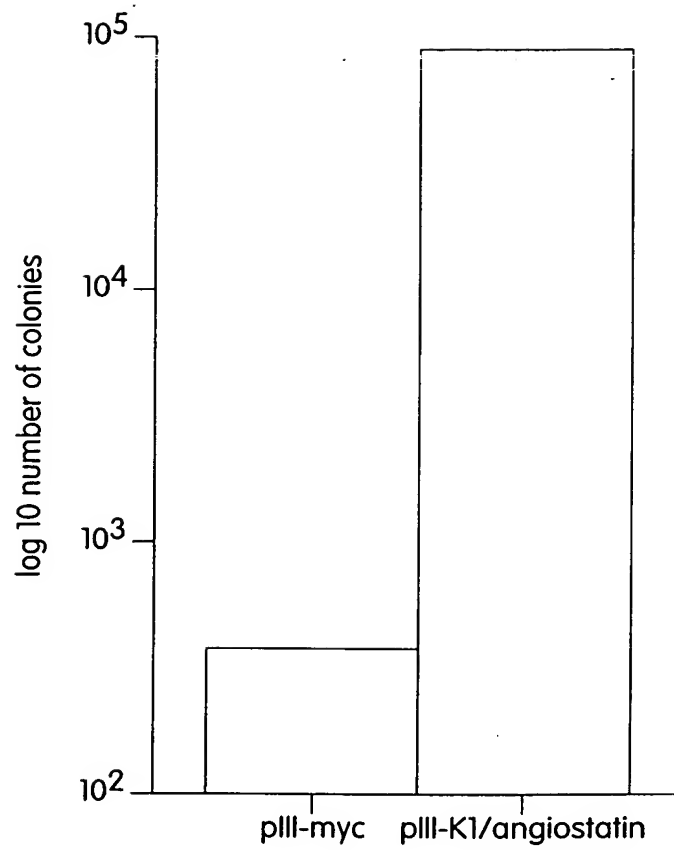


Fig. 14



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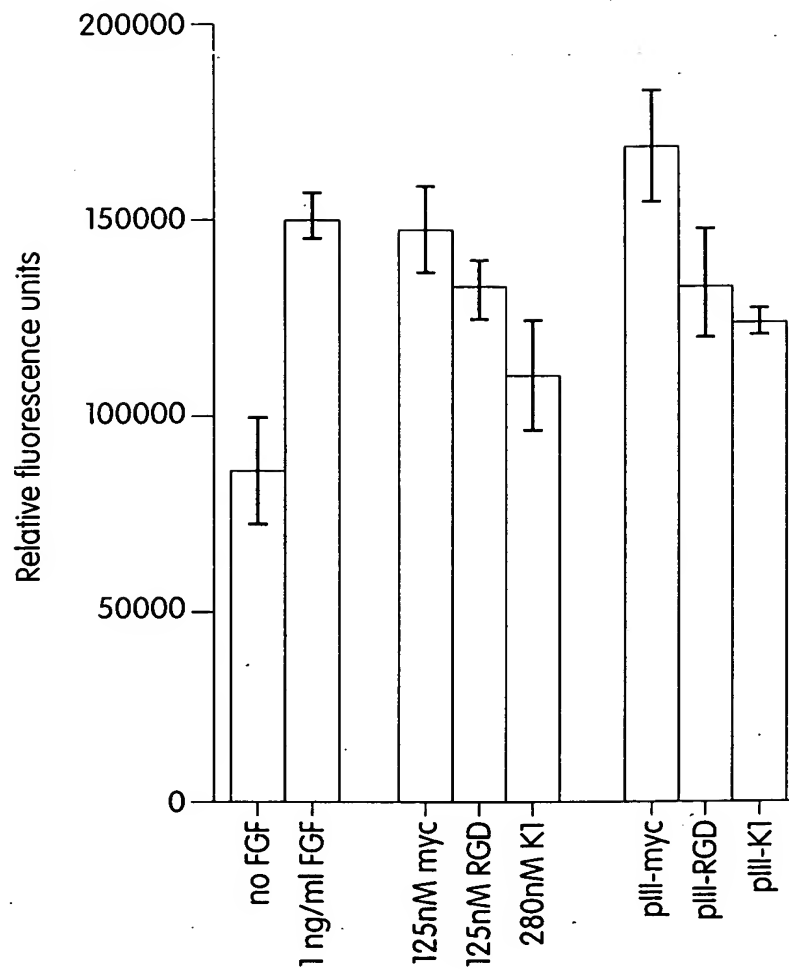


Fig. 15A

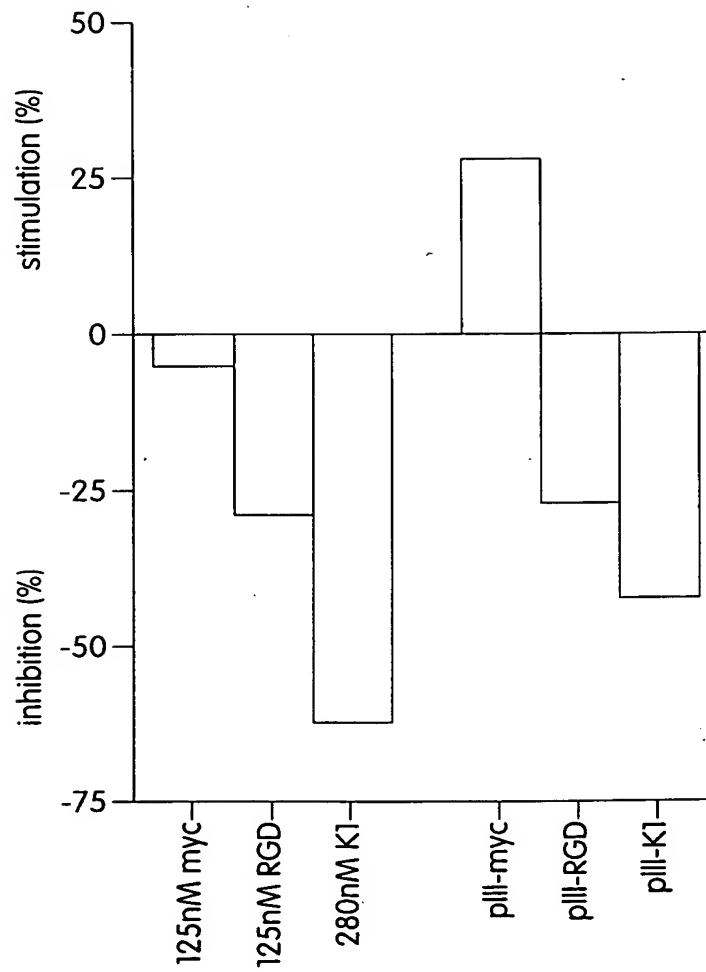


Fig. 15B